

## ABSTRACT

- Optical systems that provide for simultaneous images and spectra from an object, such as a tissue sample, an industrial object such as a computer chip, or any other object that can be viewed with an optical system such as a microscope, endoscope, telescope or camera. In some embodiments, the systems provide multiple images corresponding to various desired wavelength ranges within an original image of the object, as well as, if desired, directional pointer(s) that can provide both an identification of the precise location from which a spectrum is being obtained, as well as enhancing the ability to point the device.
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